

### **Abstract**

A home RO filtration system includes a membrane module having an inlet connected to a feed line, the membrane module also having a concentrate outlet coupled to a concentrate line, and a permeate outlet coupled to a permeate line. The permeate line communicates with a faucet. The system includes a flush reservoir communicatively coupled between the permeate line and the feed line. The system is configured such that after the faucet is turned off, a portion of permeate is delivered to the reservoir and then delivered to the inlet of the module to flush the module.

10